

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/006805

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C12N9/50 C07K14/81

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C12N C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, EMBL, WPI Data, Sequence Search

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DATABASE EMBL 'Online! 29 April 1994 (1994-04-29), NONG, V. ET AL.: XP002269560 retrieved from EBI accession no. EMBL Database accession no. Z32795 abstract	1-4, 17-23
A	DATABASE UNIPROT 'Online! 1 March 2002 (2002-03-01), YAMADA, K. ET AL.: XP002269561 retrieved from EBI accession no. UNIPRT Database accession no. Q8VYSO abstract	1-4, 17-23
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\* & \* document member of the same patent family

Date of the actual completion of the international search

15 December 2004

Date of mailing of the international search report

23. 03. 05

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	MARRACCINI PIERRE ET AL: "Molecular cloning of the complete 11S seed storage protein gene of Coffea arabica and promoter analysis in transgenic tobacco plants" PLANT PHYSIOLOGY AND BIOCHEMISTRY, GAUTHIER-VILLARS, PARIS, FR, vol. 37, no. 4, April 1999 (1999-04), pages 273-282, XP002197483 ISSN: 0981-9428 cited in the application	
A	----- LEROY T ET AL: "GENETICALLY MODIFIED COFFEE PLANTS EXPRESSING THE BACILLUS THURINGIENSIS CRY1AC GENE FOR RESISTANCE TO LEAF MINER" PLANT CELL REPORTS, SPRINGER VERLAG, DE, vol. 19, no. 4, 2000, pages 382-389, XP001002322 ISSN: 0721-7714 cited in the application	
A	----- WO 02/04617 A (KOCHHAR SUNIL ;NESTLE SA (CH); BUCHELI PETER (FR); LALOI MARYSE (F) 17 January 2002 (2002-01-17) cited in the application the whole document	1-4, 17-23
A	----- WO 02/42327 A (KOCHHAR SUNIL ;NESTLE SA (CH); HANSEN CARL ERIK (CH); JUIILLERAT MA) 30 May 2002 (2002-05-30) the whole document	1-4, 17-23
X	----- DATABASE UniProt 'Online! 1 June 2001 (2001-06-01), "Cysteine proteinase inhibitor." XP002310747 retrieved from EBI accession no. UNIPROT:Q9ARH0 Database accession no. Q9ARH0 the whole document	5,17-22
A		6-8
X	----- LING J-Q ET AL: "Cloning of two cysteine proteinase genes, CysP1 and CysP2, from soybean cotyledons by cDNA representational difference analysis" BIOCHIMICA ET BIOPHYSICA ACTA . GENE STRUCTURE AND EXPRESSION, ELSEVIER, AMSTERDAM, NL, vol. 1627, no. 2-3, 19 June 2003 (2003-06-19), pages 129-139, XP004431612 ISSN: 0167-4781	13,17-22
A	----- -/--	14-16

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>-&amp; DATABASE UniProt 'Online! 1 October 2003 (2003-10-01), "Cysteine proteinase" XP002310748 retrieved from EBI accession no. UNIPROT:Q7X750 Database accession no. Q7X750 the whole document</p> <p>-----</p> <p>DATABASE USPTO Proteins 'Online! 14 February 2001 (2001-02-14), "Sequence 74 from patent US 6103514." XP002310749 retrieved from EBI accession no. USPOP:AAE48221 Database accession no. AAE48221 the whole document &amp; US 6 103 514 A (NATORI SHUNJI) 15 August 2000 (2000-08-15)</p> <p>-----</p>	13-16
A	<p>DATABASE Geneseq 'Online! 17 October 2000 (2000-10-17), "Arabidopsis thaliana protein fragment SEQ ID NO: 36701." XP002310750 retrieved from EBI accession no. GSN:AAG30665 Database accession no. AAG30665 the whole document &amp; EP 1 033 405 A (CERES INC) 6 September 2000 (2000-09-06)</p> <p>-----</p>	1-4

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/EP2004/006805

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☒ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:  
1-8,13-16 (completely), 17-23 (all partially)
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-4 (completely), 17-23 (partially)

Polynucleotide encoding SEQ ID NO. 2 or polypeptides at least 70% identical thereto, vectors, transformed cells and a method for modulating coffee flavour.

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2. claims: 5-8 (completely), 17-23 (all partially)

Polynucleotide encoding SEQ ID NO. 4, 10, 12 or 14 or polypeptides at least 70% identical thereto, vectors, transformed cells and a method for modulating coffee flavour.

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3. claims: 9-12 (completely), 17-23 (all partially)

Polynucleotide encoding SEQ ID NO. 6 or 8 or polypeptides at least 70% identical thereto, vectors, transformed cells and a method for modulating coffee flavour.

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4. claims: 13-16 (completely), 17-23 (all partially)

Polynucleotide encoding SEQ ID NO. 16 or polypeptides at least 70% identical thereto, vectors, transformed cells and a method for modulating coffee flavour.

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/006805

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0204617	A	17-01-2002	AU 1877302 A	21-01-2002
			WO 0204617 A2	17-01-2002
			EP 1303621 A2	23-04-2003
			US 2003148417 A1	07-08-2003
WO 0242327	A	30-05-2002	AU 1704902 A	03-06-2002
			CZ 20031745 A3	14-01-2004
			WO 0242327 A2	30-05-2002
			EP 1339850 A2	03-09-2003
			US 2004010123 A1	15-01-2004
US 6103514	A	15-08-2000	JP 3118561 B2	18-12-2000
			JP 11146789 A	02-06-1999
			CA 2238657 A1	18-05-1999
			US 6214599 B1	10-04-2001
EP 1033405	A	06-09-2000	CA 2300692 A1	25-08-2000
			EP 1033405 A2	06-09-2000